TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-07-13-01** **Date: 15-07-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at 1st cross Bullet Krishnappa Layout in ward no.09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri Kiran Krishnareddy, Oppt. SRS Building, K.G.Halli, Jalahalli, Bangalore-560015

Customer's Reference : BBMP/EE/BTP/WO/17/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-07-17

Sample ID No : 2017-07-13-01-01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 14-07-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.85	–
2	Finess by Air permeablity method (m^2/kg, Min)	290.5	225m^2/kg, Min
3	Density (gm/cc)	3.25	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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AEE (VR) SD

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-07-13-01** **Date: 11-08-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at 1st cross Bullet Krishnappa Layout in ward no.09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri Kiran Krishnareddy, Oppt. SRS Building, K.G.Halli, Jalahalli, Bangalore-560015

Customer's Reference : BBMP/EE/BTP/WO/17/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-07-17

Sample ID No : 2017-07-13-01-01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 14-07-17

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-13-01** **Date: 17-07-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 1st cross Bullet Krishnappa Layout in ward no.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri Kiran Krishnareddy, Oppt. SRS Building, K.G.Halli, Jalahalli, Bangalore-560015
Customer's Reference	:	BBMP/EE/BTP/WO/17/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	13-07-17
Sample ID No	:	2017-07-13-01-02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	13-07-17

AEE (TRP) SD

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	342	342	2.3	97.7	90-100
3	20 mm	5376	5718	38.1	61.9	30-70
4	10 mm	4532	10250	68.3	31.7	10-35
5	4.75 mm	4253	14503	96.7	3.3	0-5
6	Pan	497	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-13-01** **Date: 17-07-17**

Sample ID No : 2017-07-13-01-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.7**	
3	Specific Gravity	**2.69**	_
4	Bulk Density(Loose) (Kg/l)	**1.55**	_
5	Bulk Density(Compacted) (Kg/l)	**1.59**	_
6	Water Absorption(%)	**0.23**	_

Note:
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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-13-01** **Date: 17-07-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 1st cross Bullet Krishnappa Layout in ward no.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri Kiran Krishnareddy, Oppt. SRS Building, K.G.Halli, Jalahalli, Bangalore-560015
Customer Reference	:	BBMP/EE/BTP/WO/17/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-07-17
Sample ID No	:	2017-07-13-01-02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-07-17

AEE (VRP) SD

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	278	278	5.6	94.4	90-100
3	10 mm	2789	3067	61.3	38.7	25-55
4	4.75 mm	1678	4745	94.9	5.1	0-10
5	Pan	255	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-13-01** **Date: 17-07-17**

Sample ID No : 2017-07-13-01-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.69	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.18	_
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-07-13-01**

Date: 17-07-17

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at 1st cross Bullet Krishnappa Layout in ward no.09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri Kiran Krishnareddy, Oppt. SRS Building, K.G.Halli, Jalahalli, Bangalore-560015

Customer's Reference : BBMP/EE/BTP/WO/17/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-07-17

Sample ID No : 2017-07-13-01-03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

AEE (VRP) SD

Date of test : 13-07-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	144	226	22.6	77.4	60-95	75-100	85-100	95-100
4	1.18 mm	179	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	189	594	59.4	40.6	15-34	35-59	60-79	80-100
6	300 micron	171	765	76.5	23.5	5-20	8-30	12-40	15-50
7	150 micron	145	910	91.0	9.0	0-10	0-10	0-10	0-15
8	Pan	90	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-07-13-01 Date: 17-07-17

Sample ID No : 2017-07-13-01-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.75	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	4.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-07-13-01**
		Date: 17-07-17
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 1st cross Bullet Krishnappa Layout in ward no.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri Kiran Krishnareddy, Oppt. SRS Building, K.G.Halli, Jalahalli, Bangalore-560015
Customer's Reference	:	BBMP/EE/BTP/WO/17/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-07-17
Sample ID No	:	2017-07-13-01-04
Sample Type/Size	:	Solid concrete blocks of size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	14-07-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	152	202	12343	27.320	2213.4	2243.8	Not less than 1800Kg/m^3
2	401	151	200	12110	27.450	2266.7		
3	401	152	201	12251	27.580	2251.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	29.435	27.134	8.48	8.61	Shall not be more than 10% by mass
2	29.876	27.453	8.83		
3	29.254	26.954	8.53		

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Lab ID : CP-2017-07-13-01

Date: 17-07-17

Sample ID No : 2017-07-13-01-04

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	151	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	150	202	
3	400	150	201	
4	400	150	201	
5	402	151	201	
6	401	152	200	
7	401	152	201	
8	402	153	202	
9	402	153	203	
10	401	154	203	
11	401	153	201	
12	401	152	202	
13	400	152	201	
14	402	150	201	
15	401	150	201	
16	401	152	202	
17	401	152	201	
18	402	151	200	
19	401	151	200	
20	400	150	201	
Average of 20	**401**	**151**	**201**	

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ID : CP-2017-07-13-01 Date: 17-07-17

Sample ID No : 2017-07-13-01-04

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	151	60551	298.5	4.9	4.2
2	403	150	60450	254.2	4.2	
3	400	150	60000	277.5	4.6	
4	400	150	60000	268.5	4.5	
5	402	151	60702	265.3	4.4	
6	401	152	60952	245.5	4.0	
7	401	152	60952	233.2	3.8	
8	402	153	61506	212.8	3.5	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-24-02 **Date: 27/07/2017**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at 1st cross Bullet Krishnappa Layout in ward no.09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri Kiran Krishnareddy, Oppt. SRS Building, K.G.Halli, Jalahalli, Bangalore-560015

Customer's Reference : BBMP/EE/BTP/WO/17/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-17

Sample ID No : 2017-07-24-02-01

Customer ID : Cement Concete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concete Pavement	M20	20/07/2017	27/07/2017	150.28 X 150.32 X 150.29	22590	8.365	417.9	18.5	18.0
2	Cement Concete Pavement	M20	20/07/2017	27/07/2017	150.25 X 150.28 X 150.20	22580	8.376	408.7	18.1	
3	Cement Concete Pavement	M20	20/07/2017	27/07/2017	150.30 X 150.35 X 150.31	22598	8.425	395.5	17.5	

Note:

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-07-24-02 **Date: 17/08/2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 1st cross Bullet Krishnappa Layout in ward no.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri Kiran Krishnareddy, Oppt. SRS Building, K.G.Halli, Jalahalli, Bangalore-560015
Customer's Reference	:	BBMP/EE/BTP/WO/17/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-07-17
Sample ID No	:	2017-07-24-02-02
Customer ID	:	Cement Concete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concete Pavement	M20	20/07/2017	17/08/2017	150.31 X 150.32 X 150.29	22595	8.421	537.8	23.8	23.2
2	Cement Concete Pavement	M20	20/07/2017	17/08/2017	150.34 X 150.28 X 150.32	22593	8.435	512.9	22.7	
3	Cement Concete Pavement	M20	20/07/2017	17/08/2017	150.34 X 150.35 X 150.30	22604	8.446	522.1	23.1	

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